

User Guide



NetDisk®

- F** Guide de l'utilisateur sur CD
- I** Guida per l'utente su CD
- D** Benutzerhandbuch auf CD
- E** Manual del usuario en CD
- NL** Handleiding op cd

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SmartDisk NetDisk® Hard Drive

Your SmartDisk NetDisk® desktop hard drive, or NetDisk® portable drive, is a versatile external hard drive featuring high-performance storage and a choice of either high-speed USB 2.0 or Ethernet interface. Once your drive is connected properly to your computer running Windows 2000 or Windows XP, you will be able to use it as you would any hard drive for storing your data and for performing data back-up functions.



NetDisk Desktop Hard Drive NetDisk Portable Hard Drive

In this manual the term “NetDisk”, when used without further qualifiers, will be used to refer to both the NetDisk desktop hard drive and the NetDisk portable drive.

Your NetDisk drive comes pre-formatted from the factory in NTFS format, which is the preferred format for use with Windows 2000 or Windows XP.

Note: Capacity dependent on model. Your operating system may report capacity as fewer gigabytes. 1 GB = 1,000,000,000 bytes.
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Controls and Indicators

The rear panel of your NetDisk drive contains the three interface connectors and single control switch as described below.



or



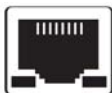
DC Input Jack

For use with the included AC Adapter.



USB Jack

For use with the included USB cable.



Ethernet Jack

For use with the included Ethernet cable.



Power Switch

Controls power to the unit.

Slide this switch to the “ON” position to apply power to the unit, and to the “OFF” position to remove power from the unit. To avoid data loss, do not turn off the unit while the yellow Activity LED is flashing.



To extend the useful life of your NetDisk, turn the unit OFF when not in use.

During operation, you can monitor the current status of your NetDisk drive by viewing the two LED’s located on the top surface of the unit.

Power LED (Green) Indicates that power is applied to the unit.

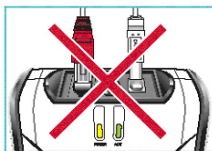
Activity LED (Yellow) Indicates that the disk drive is being accessed.

Which Interface: USB or Ethernet?

In order to install and use your NetDisk drive, you need to decide which interface is better for you. With the flexibility of NetDisk, you can always change the interface you want to use later, depending on your application or computer environment. However, never attempt to connect to both USB and Ethernet at the same time.



Caution: Do not connect both USB and Ethernet at the same time.



If you do not have an Ethernet network available to you, or you primarily want to provide additional storage to a single computer, then you should consider USB as your interface selection. Please continue reading from the next section to learn how to install your NetDisk using USB.

If your PC is connected to a Local Area Network (LAN) over Ethernet (either wired or wireless), and you primarily want to provide shared storage amongst two or more computers on the LAN, then you should consider Ethernet as your interface selection. Please jump to the section entitled **Connecting NetDisk Using Ethernet** to learn how to install your NetDisk using Ethernet.

Connecting NetDisk Using USB

Installing your NetDisk using USB is extremely simple. Follow the steps below, depending on which NetDisk model you are installing.

NetDisk Desktop Drive:

1. Connect the included AC Adapter to NetDisk, and then to a wall outlet using the included power cord.
2. Then locate the power switch on the back of the NetDisk, and slide it to the ON position.
3. Finally, connect the included USB cable from the USB port on NetDisk to the USB port on your PC.

NetDisk will mount automatically, and a new icon will appear in **My Computer** representing your NetDisk.

NetDisk Portable Drive:

The NetDisk portable drive can be operated either in bus-powered mode, or in self-powered mode using the included AC Adapter, depending on the amount of power available from your computer.

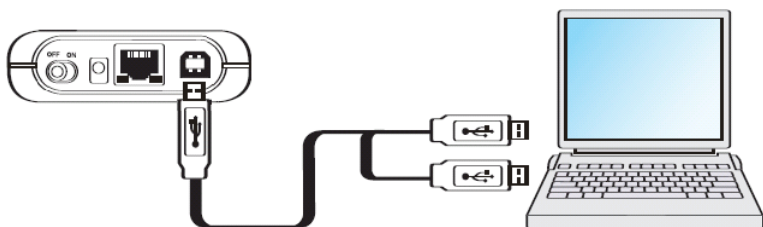
Bus-Powered Mode:

This mode uses the power provided over the USB cable and does not require use of the optional AC Adapter.

1. Locate the power switch on the back of your NetDisk and slide it to the OFF position.
2. Next connect the included 3-connector USB cable from the USB port on NetDisk to the USB port on your PC (one connector of the 3-connector USB cable will be unused).

If there is adequate power being supplied from your PC, the NetDisk will mount automatically, and a new icon will appear in **My Computer** representing your NetDisk.

If it does not mount automatically, you may need to connect **BOTH** USB connectors of the supplied 3-connector USB cable to available USB ports on your PC. If your NetDisk still fails to mount, you will need to use the included AC Adapter in self-powered mode, as explained below.



Self-Powered Mode:

1. Connect the included AC Adapter to NetDisk, and then to a wall outlet.
2. Then locate the power switch on the back of the NetDisk, and slide it to the ON position.
3. Next connect the included 3-connector USB cable from the USB port on NetDisk to the USB port on your PC (one connector of the 3-connector USB cable will be unused).

The NetDisk will mount automatically, and a new icon will appear in **My Computer** representing your NetDisk.

Note: If you are using a USB 1.1 port on your Windows computer, the following cautionary note may appear on your display: **Hi-Speed USB Device plugged into non-Hi-Speed USB hub.** This does not indicate a problem because NetDisk is compatible with both USB 1.1 and USB 2.0 ports. Simply close the message and proceed. However, in this case NetDisk will operate only at USB 1.1 speeds.

Storing and Transferring Data via USB

Once your drive is connected to a computer via USB, it can be accessed and used like any other removable disk. You can drag files to your NetDisk's icon to copy them, navigate to your hard drive in **Open** or **Save** dialog boxes, or delete files stored on your SmartDisk

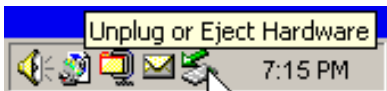
hard drive. For information on copying, opening, or deleting files, consult your computer's documentation.

Disconnecting NetDisk from USB

Your NetDisk drive is hot-pluggable; it can be connected and disconnected without restarting your computer. To disconnect your drive at any time, perform the following steps. You can also disconnect your hard drive at any time while your computer is powered off.

Note: Please be careful to follow the correct procedure when disconnecting your hard drive. Simply unplugging the hard drive without first following the instructions below may result in damage to your hard drive and/or loss of data.

1. If you have files located on your hard drive open in any application, close them.
2. Click the Unplug or Eject Hardware button in the System Tray.



3. Select your NetDisk drive from the menu that appears.
4. After a moment, Windows will display a message indicating that your hardware can be safely removed.

You may also simply shut down your computer with the NetDisk drive connected, and then disconnect it.

Connecting NetDisk Using Ethernet

Installing NetDisk using Ethernet is a very simple process that involves four fundamental steps:

1. Preparing for device registration
2. Connecting the hardware to your LAN
3. Installing NDAS™ software on your PC
4. Registering and mounting your NetDisk

Note that steps 3 and 4 must be performed on each PC that will access your NetDisk.

Preparing for Device Registration

Later in the process you will be asked to enter a unique 20-character code, referred to as your “NDAS Device ID”, which has been supplied with your unit. The process of entering this unique code is referred to as Device Registration. Take this time to copy this code where indicated in the space provided below. You will find the code located on a sticker that has been affixed to the bottom of your NetDisk unit. Note that although the code is comprised of both numbers and letters, no code will contain either the letter ‘O’, or the letter ‘I’, to avoid possible confusion with the numbers 0 and 1.

Similarly, you will be asked to enter a unique 5-character code, referred to as your “Write Key”, which can be found below the NDAS Device ID on the sticker on the bottom of your NetDisk unit. Take this time to copy this code where indicated below.

Note: Since any user on your LAN who has possession of the Write Key can gain permission to write to the NetDisk, you may prefer to keep the Write Key written elsewhere and placed in safekeeping.
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Carefully enter your 20-character NDAS Device ID here for future reference:

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--	--	--	--	--

--	--	--	--	--

--	--	--	--	--

Carefully enter your 5-character Write Key here for future reference:

--	--	--	--	--

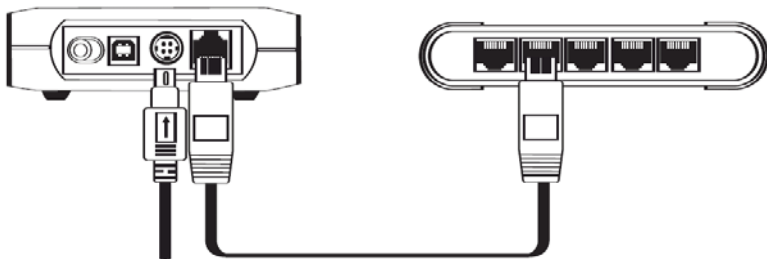


Note: Do not enter the letter ‘O’ or the letter “I”.

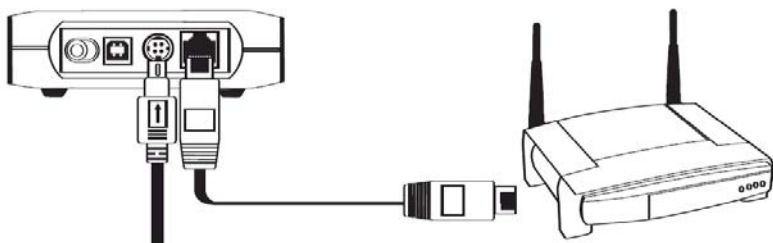
Connecting the Hardware to Your LAN

Now you are ready to physically connect the NetDisk to the Ethernet network and power it on.

1. Connect the included Ethernet cable from the Ethernet port on NetDisk to an Ethernet switch (100 Base-T) or wireless router or wireless access point.
2. Connect the included AC Adapter to NetDisk, and then to a wall outlet.
3. Then locate the power switch on the back of the NetDisk, and slide it to the ON position.



NetDisk Connected to Fast Ethernet Switch



NetDisk Connected to Wireless Router or Wireless Access Point

Installing NDAS™ Software on Your PC

Note: If you are using firewall or anti-virus software, please disable these services before installing the NDAS software.

To begin the software installation, insert the included “NetDisk Installation CD” into your CD-ROM Drive and follow the instructions on the screen for installing NDAS software.

Note for Windows XP: If you see a caution notice stating that the software has not passed **Windows Logo** testing, simply select “Continue Anyway” to proceed with the installation.

Note for Windows 2000: If you see a caution notice stating “**Digital Signature Not Found**”, simply select “Yes” to proceed with the installation.

After the initial steps of the installation process have completed, you will be prompted to reboot your computer. After rebooting, Windows will now detect the presence of your NetDisk, and will automatically launch the “Found New Hardware Wizard”. With the NetDisk Installation CD still in the CD-ROM drive, follow the instructions on the screen to complete the software installation.

When software installation is completed, you will find the NDAS

Device Manager Launcher Icon  on your desktop screen and the NDAS Device Manager Tool Icon  on the system tray. The Launcher (desktop icon) can be used later in case you ever need to re-load the NDAS Device Manager Tool onto the system tray.

The NDAS Device Manager Tool (system tray icon) allows you to perform the following functions:

- Refresh NetDisk status
- Register a new NetDisk device
- Display software version
- Mount a NetDisk for Read / Write access
- Mount a NetDisk for Read Only access
- Unmount one or more NetDisks
- Edit NetDisk name
- Display NetDisk properties
- Disable NetDisk (Deactivate further device communication, or Unregister the device)

Registering and Mounting Your NetDisk

The final step for installing NetDisk for use on your Ethernet LAN is to register your NetDisk using the NDAS Device Manager tool.

1. Click NDAS Device Manager Tool Icon  located on the system tray.

2. Select 'Register a New Device'.
3. Follow the prompts on the screen from the Registration Wizard and enter the requested information:
 - NetDisk Name: Enter a name that will be used when listing your NetDisk in the NDAS Device Manager pop-up menu.
 - NDAS Device ID: Enter the 20-character ID (as described above in **Preparing for Device Registration**)
 - Write Key: (optional) Enter the 5-character Write Key (as described above in **Preparing for Device Registration**) The Write Key must be entered in order to have NetDisk Write privileges from this computer.
 - Mounting preference: Select Mount Read/Write; Mount Read Only; or defer mounting to later.

This completes the installation process for using NetDisk with Ethernet. Confirm that NetDisk shows up in **My Computer** as a local drive. The drive letter assigned by the operating system may vary between computers and different configurations. The drive name in **My Computer** will reflect the Volume Label on hard drive, and may differ from the name you entered above during Device Registration.

You can now begin to use NetDisk like a local drive on your PC.

NetDisk Operation Using Ethernet

If you have Read Only access, you can access and read files placed on NetDisk by others. If you have Read/Write privileges, you can

- Drag and drop files to NetDisk
- Copy and paste data to NetDisk
- Make and delete folders
- Share files and folders
- Back-up your data

Sharing NetDisk over your LAN

Once NetDisk is connected to your network, it can be accessed from any computer on your LAN that has installed the NDAS software and has completed Device Registration.

To share NetDisk over Ethernet, the following conditions are required:

- All computers and NetDisk must be on the same LAN.
- NetDisk must be connected via Ethernet or a Wireless Access Point.
- To share Read and Write access, all computers on the network using the NetDisk must have the same NetDisk driver version installed (such as 3.xx).
- NetDisk must be registered onto each computer.

In addition, please comply with the following caution when sharing NetDisk over Ethernet:



Caution: Do not format or partition while sharing NetDisk.

Do not perform disk operations such as format or partition when multiple PCs are connected. NetDisk can be formatted or partitioned only when one PC is connected.

The NDAS Device Manager

The NDAS Device Manager is an application that runs on your PC and helps you to manage the available features and modes of NetDisk devices installed and registered on your LAN. Below is a brief description of the how to run NDAS Device Manager, and how to use its menu options.

To run NDAS Device Manager, click the NDAS Device Manager



Tool icon in the system tray at the lower right corner of your Windows display. All registered NetDisks will be displayed at the top

of the NDAS Device Manager Tool Menu. The name you entered at the registration step will be displayed here.

If for any reason the NDAS Device Manager Tool gets removed from the system tray, it can be restored by double clicking the NDAS



Device Manager Launcher icon on the Desk Top.

The menu options provided by NDAS Device Manager are:

- **Refresh Status** – This updates the status of NetDisk units that are connected to the network.
- **Register a New Device** – Prompts you for information required to register a new NetDisk onto your computer. Each time a new NetDisk is added, it must be registered. For more information please refer to the section **Registering and Mounting Your NetDisk**.
- **About** - Displays the NDAS Device Manager version number.
- **Options** – Presents several menu selections for how you want NDAS Device Manager dialogues to appear, and how you interact with NDAS Device Manager.
- **Exit** - Exits NDAS Device Manager.
- **[NetDisk]** - Place the cursor over any listed NetDisk to view further options for that drive.
 - **Mount Read/Write** – Mounts the unit as a Read / Write device. This option is listed only when the unit is connected and NDAS communications are activated.
 - **Mount Read Only** – Mounts the unit as a Read Only device. This option is listed only when the unit is connected and NDAS communications are activated.
 - **Unregister** – Removes the unit from the list of registered devices in the NDAS Device Manager pop-up menu. This option is listed only when the unit is Disconnected or Deactivated. Once unregistered, the NDAS Device ID must be re-entered in order to register again.

- **Unmount** - Removes the unit from **My Computer**, which prevents this computer from writing to and reading from NetDisk. This option is listed only when the unit is mounted. If NetDisk is being used by any application, NetDisk will not unmount. Wait until applications are finished using NetDisk and then try disabling it again.

Note: The Unmount function can also be accomplished using the “Safely Remove Hardware” icon  in your Windows system tray.

- **Activate** – Reestablishes NDAS communications with the device. This option is listed only when the unit is Deactivated.
- **Properties** – Presents a menu that allows the display of detailed parameters related to the unit. The Properties menu also provides a means to rename the unit, and includes Advanced feature options, such as Deactivation and Connection Reset.

NetDisk Status and Mode Indicator

The current status of NetDisk is defined by the combined state of four primary conditions: registration, activation, connection, and mounting. When all four conditions are met, you will be able to access NetDisk. A brief description of each condition will help you understand the mode indicator icons described in the table later in this section.

1. Registration

If you have entered the NetDisk ID during installation or later during the “Register a New Device” dialogue, your device is registered and will show up in the list of devices at the top of the NDAS Device Manager pop-up menu.

2. NDAS Activation

During initial installation or registration, NDAS driver software will automatically begin communicating with your NetDisk. You can deactivate this communication using the “Deactivate” command, accessed through the “Advanced” tab of the NDAS Device Manager

“Properties” menu. You can later “Activate” again through the NDAS Device Manager.

3. Connection

A NetDisk that is registered and activated will be connected when it is powered on and the Ethernet cable is plugged in between NetDisk and the LAN.

4. Mounting

A NetDisk that is registered, activated, and connected, can be mounted. Mounting is performed with the Mount commands in the NDAS Device Manager pop-up window. Once mounted, NetDisk will show up in **My Computer**.

As an aid to help you quickly determine the state of any registered NetDisk, a colored icon is shown next to the name of each NetDisk in the NDAS Device Manager pop-up list. Refer to the table below for a description of the state associated with each color.

Color	Icon	State / Meaning
Black		Disconnected This unit is not connected to the local network. It may be because it is powered OFF or the Ethernet cable may be unplugged. Also, make sure any Antivirus / Firewall software is not interfering with the connection. From this state you can elect to disable it by deactivating further NDAS communication or by unregistering the unit. If you unregister, you will need to re-enter the NDAS Device ID when you attempt to register again.
Green		Mounted as Read Only This unit will show up in My Computer . However, you can only read from it.
Blue		Mounted as Read / Write This unit will show up in My Computer . You can read and write to it.
White		Unmounted This unit is connected and NDAS communication is activated, but it will not show up in My Computer . From this state you can elect to mount it, or elect to disable it by deactivating further NDAS communication or by unregistering the unit. If you unregister, you will need to re-enter the NDAS Device ID when you attempt to register again.
Red		NDAS Communication Deactivated Communication with this unit has been deactivated. You can activate it once again using the NDAS Device Manager. From this state you can elect to disable it by unregistering the unit. If you unregister, you will need to re-enter the NDAS Device ID when you attempt to register again.

Changing from Read / Write Mode to Read Only Mode

To change from Read/Write mode to Read Only mode, perform the following steps:

1. Click NDAS Device Manager Tool and select the NetDisk whose mode you want to change
2. Select Mount Read Only. The blue color will change to green, indicating Read Only Mode.

Changing from Read Only Mode to Read / Write Mode

To change from Read Only mode to Read/Write mode, perform the following steps:

1. Click NDAS Device Manager Tool and select the NetDisk whose mode you want to change.
2. Select Mount Read/Write. Provided that the Write Key was entered during the registration process for this computer, the green color will change to blue, indicating Read/Write Mode.

Getting Help

If you are experiencing difficulty installing or using your SmartDisk product, please visit the main SmartDisk Technical Support website at www.SmartDisk.com. From this page you can access our library of user documentation, read answers to frequently asked questions, and download available software updates. Although most of our customers find this content sufficient to put them back on the right track, this page also lists ways in which you can contact the SmartDisk Technical Support Team directly.

Please take this time to enroll to receive future information about your SmartDisk product at www.SmartDisk.com/Registration.asp. This enrollment is quick and easy and will assist us in providing the best possible experience with this and future SmartDisk products.

Warranty Terms

SmartDisk Corporation warrants its products to be free of defects in material and workmanship under normal use and service for a period of 1 year from the date of purchase or 3 years from the date of manufacture, whichever occurs first. Products purchased in European Union countries covered by Directive 1999/44/EC are warranted for a period of 2 years from the date of purchase. SmartDisk's sole obligation with respect to claims of non-conformance made within the warranty period described above shall be, at its option, to repair or replace any item of Equipment that SmartDisk, in its sole discretion, determines to be defective. The Customer shall obtain a Return Merchandise Authorization (RMA) number from SmartDisk prior to returning any Equipment to SmartDisk under this warranty by contacting Technical Support (see www.SmartDisk.com). The Customer shall prepay shipping charges for Equipment returned to SmartDisk for warranty service, and SmartDisk shall pay freight charges for the return of the Equipment to the Customer, excluding customs duties or taxes, if any. All returns require a dated original proof of purchase and a letter explaining the problem.

SmartDisk Corporation will not be responsible for items returned without an RMA or improperly packaged. Replacement Equipment shall be new or like new in performance and shall be warranted for the remaining duration of the warranty term of the non-conforming Equipment. SmartDisk Corporation will not be responsible for recovery of customer data from returned products that incorporate data storage. All replaced Equipment shall become the property of SmartDisk. Any claims of defects not made within the warranty period shall be deemed waived by Customer.

SmartDisk's warranty obligations hereunder are expressly conditioned upon (i.) the Products being properly installed, used and maintained at all times by Customer; (ii.) the Products not being subject to unusual mechanical stress or unusual electrical or environmental conditions or other acts of God; (iii.) the Products not being subjected to misuse, accident or any unauthorized installation/deinstallation by Customer or other third party; (iv.) the Products not being altered or modified in an unauthorized manner, unless approved in writing or otherwise performed by SmartDisk and (v.) Customer promptly installing all Product revisions that have been released for such Products by SmartDisk throughout the warranty term. SmartDisk does not warrant that the Products will operate in any specific combination that may be selected for use by Customer or that the operation of the Products will be uninterrupted or error free, or that all non-conformance or defects will be remedied. Additionally, SmartDisk shall have no warranty obligations for any failure of

the Products to conform to the applicable product specifications resulting from the combination of any Product(s) with hardware and/or software not supplied by SmartDisk. If it is determined that any Product(s) reported as defective or non-conforming by Customer during the warranty period is not defective or non-conforming, SmartDisk may, at its option, charge Customer for any labor provided and expenses incurred by SmartDisk in connection with such determination, at SmartDisk's then current rates.

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The software included with this product is furnished under a license agreement. The software may be used only in accordance with the terms of the license agreement.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.



Simplifying The Digital Lifestyle™

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